

CENTER ROUTING SLIP

RSB/RED/TSSG			DATE 22 May 1970
TO	INITIALS	DATE	REMARKS
DIRECTOR	<i>cu</i>	<i>6/1</i>	5-4 THIS REPORT CONCERNS THE FLYER YOU DIRECTED TO JWC'S ATTENTION LAST MONTH
DEP/DIRECTOR	<i>3</i>	<i>5/28</i>	
EXEC/DIRECTOR	<i>2</i>	<i>5/28</i>	
SPECIAL ASST	<i>1</i>	<i>6/1</i>	
ASST TO DIR	<i>5</i>	<i>5/28</i>	
HISTORIAN			
CH/PPBS			<i>for info</i>
DEP CH/PPBS			
EO/IEG			
CH/PSG			
DEP CH/PSG			
EO/PSG			
CH/TSSG			
DEP CH/TSSG			
EO/TSSG			
CH/SSD/TSSG			
PERSONNEL			
LOGISTICS			
TRAINING			
RECORDS MGT			
SECURITY			
FINANCE			
DIR/IAS/DDI			
CH/DIAXX-4			
CH/DIAAP-9			
CH/SPAD			

IP FM 30 (12-69) - OBSOLETE PREVIOUS EDITIONS

Declass Review by
NIMA/DOD

SECRET

Collier Sept: 2

Approved For Release 2005/07/12 : CIA-RDP78B05703A000700020010-6

NPIC/TSSG/RED/RSB-054-70
22 May 1970

MEMORANDUM FOR THE RECORD

THROUGH: Chief, Reconnaissance Systems Branch, RED/TSSG/NPIC
Chief, Research & Engineering Division, TSSG/NPIC *YH*

SUBJECT: NASA Lunar Topographic Camera

1. The undersigned was requested by Ch/RSB/RED/TSSG to provide O/Dir, Ch/TSSG, Ch/IEG, and Ch/PSG some general information on the NASA Lunar Topographic Camera. The basic parameters presented in this memorandum are from a [] news release dated 31 March 1970 obtained from Director/NPIC.

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2. The subject, NASA Lunar Topographic Camera, is an outgrowth of [] KA-74A camera and called for the production of three (3) flight cameras. First flight of the Lunar Topographic Camera was on the abortive Apollo 13 mission. The camera specifications called for an 18-inch focal length lens with three (3) shutter speeds, a [] device on a $4\frac{1}{2}$ inch square format which allows exposure rates varying from 4 to 75 frames per minute. Stereo coverage is available providing detailed information of the lunar surface on orbits ranging from 8 to 60NM. Convergent stereo will be obtained by flying one pass with the camera pointed vertical and a following pass pointing AFT. Swath width during the 8-mile moon orbit is $1\frac{3}{4}$ NM increasing to 15NM on the 60-mile orbit, with the camera pointing to the NADIR. Film capacity is 5-inch by 100 feet for standard and 200 feet for thin base.

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3. The camera is mounted in a fixed position at the Command Module Hatch Window and photographic methods approximate those long used for aerial surveys of the earth's surface. The astronaut will aim the camera by orienting the orbiting Command Module toward pre-planned targets.

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System Project Officer
RSB/RED/TSSG

Attachments:

1. Lunar Topographic Camera
2. Lunar Topographic Camera Installation

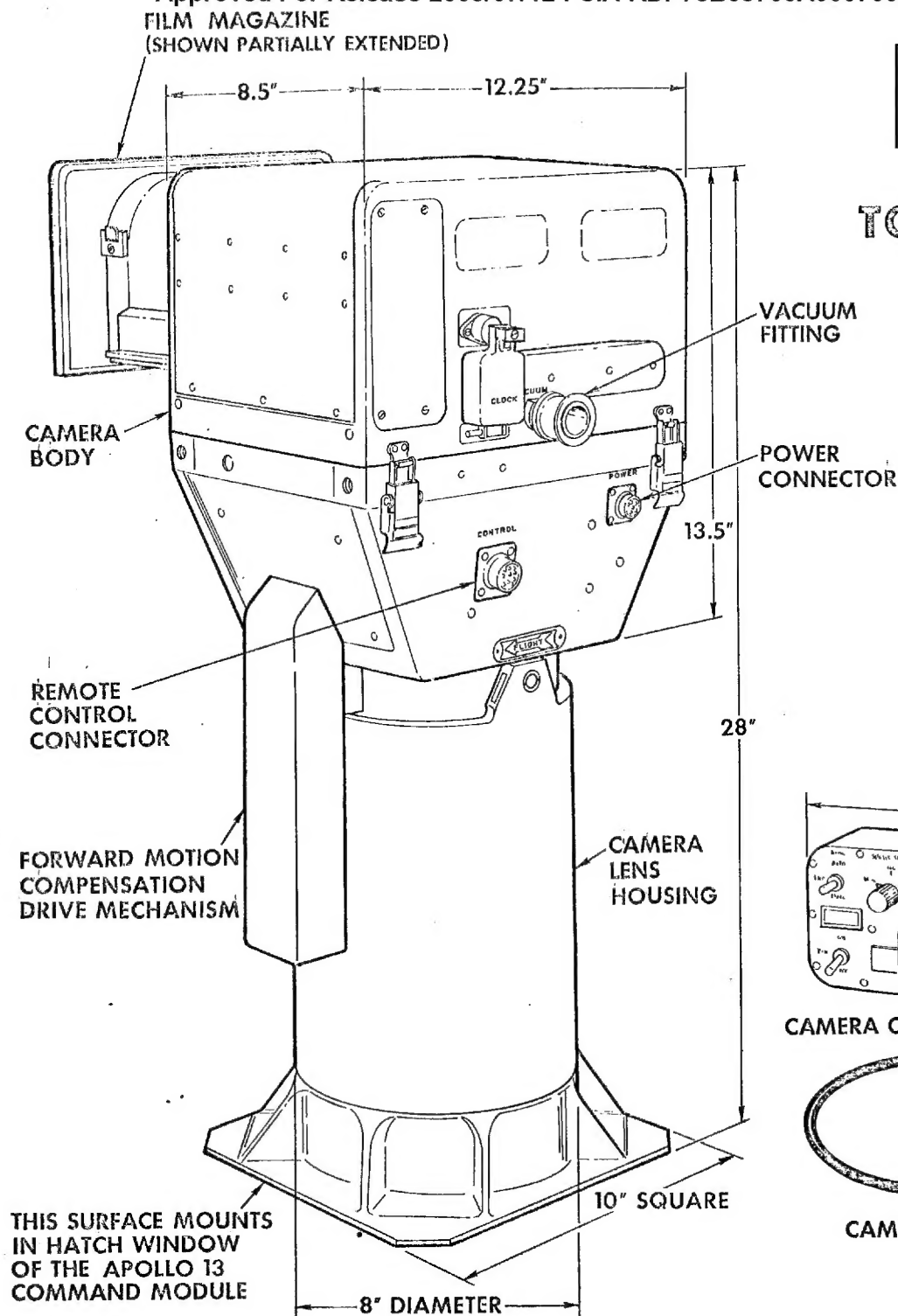
Distribution:

- 1 - NPIC/O/Dir (w/att)
- 1 - NPIC/TSSG (w/att)
- 1 - NPIC/IEG (w/att)
- 1 - NPIC/PSG (w/att)
- 1 - NPIC/TSSG/RED (w/att)
- 2 - NPIC/TSSG/RED/RSB

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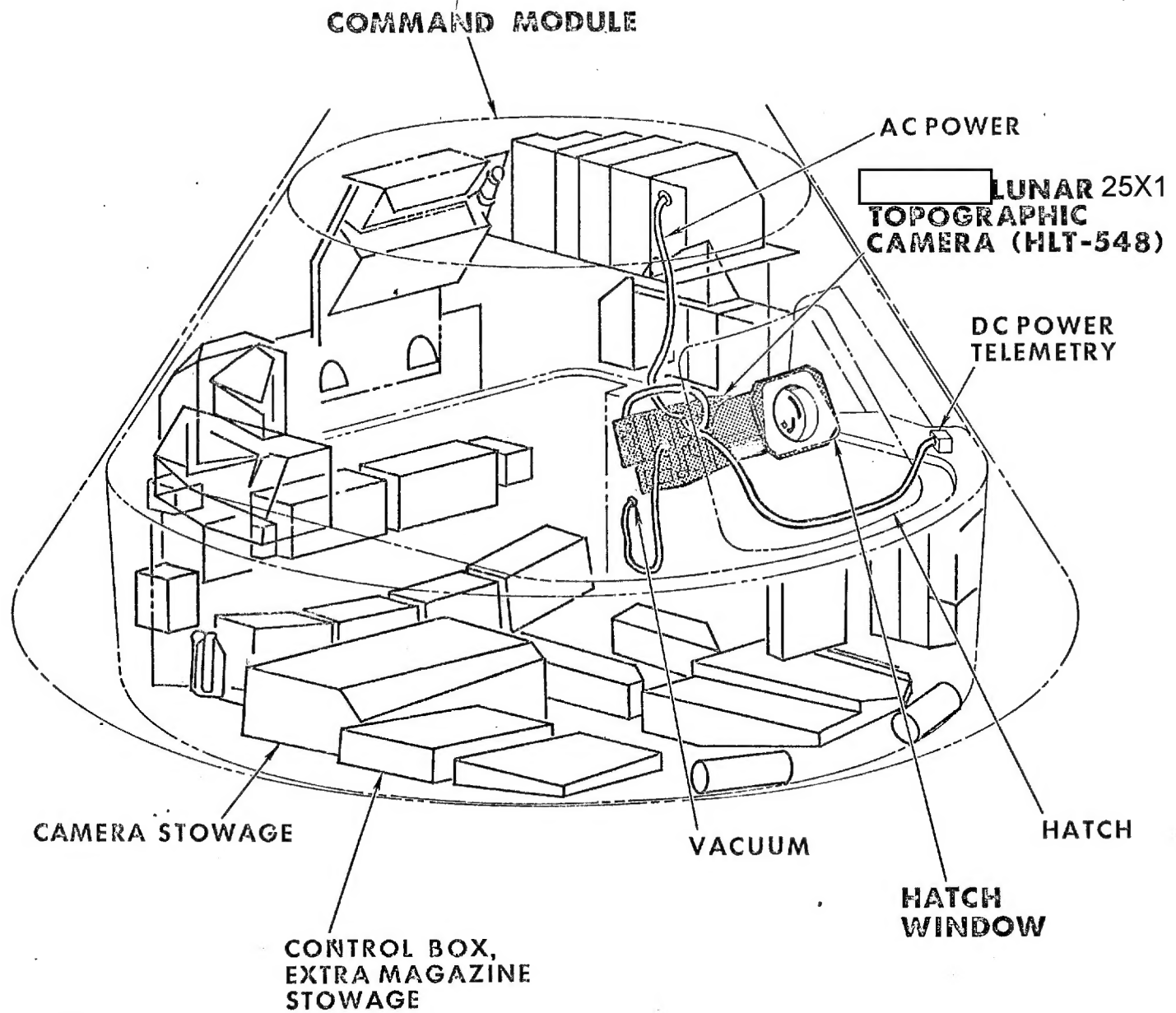
GROUP 1
Excluded from automatic
downgrading and
declassification

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LUNAR TOPOGRAPHIC CAMERA INSTALLATION



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